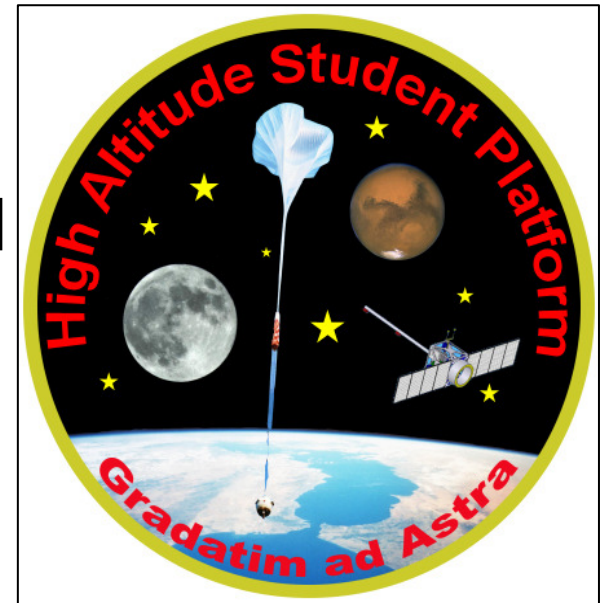


Introduction

- High Altitude Student Platform (HASP) 120,000 ft
 - Sponsored by LSU partnered with NASA
 - Eight small 1kg payloads
 - Four large 10kg payloads
 - HISS/UMES sponsored our payload
- Hawk HASP payload is small
 - Digital Video and Film Still Camera
 - Solar Panel Efficiency Experiment
 - Sun Light Intensity Experiment
 - Temperature Measurements



HawkHASP

- Lab project of Spring Semester 2007 Gateway to Space
- Taught by Marco Villa and Bob Davis (KF4KSS)
- Collaboration:
 - University of Maryland Eastern Shore (UMES)
 - Hawk Institute for Space Sciences (HISS)
- UMES provided \$750 for design
- HISS secured travel funds from Maryland Space Grant
- 14 undergrad students (interdisciplinary) designed and built a small HASP payload...open elective
- Integration and testing completed by 5 summer interns.
- 3 students supported ballooncraft integration in Texas, then flight on Sept 3, 2007 from Fort Sumner, New Mexico.

Task Timeline

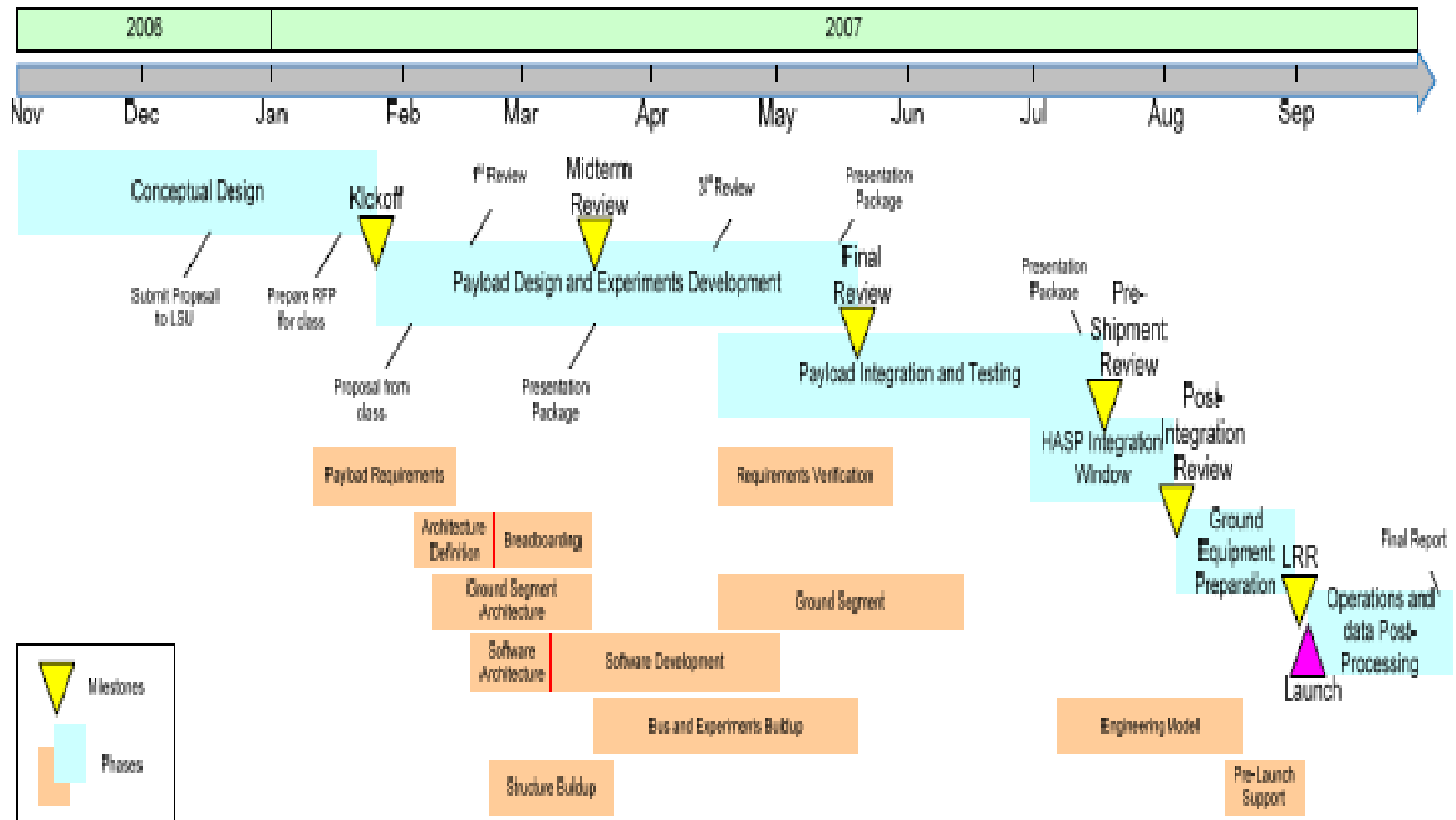
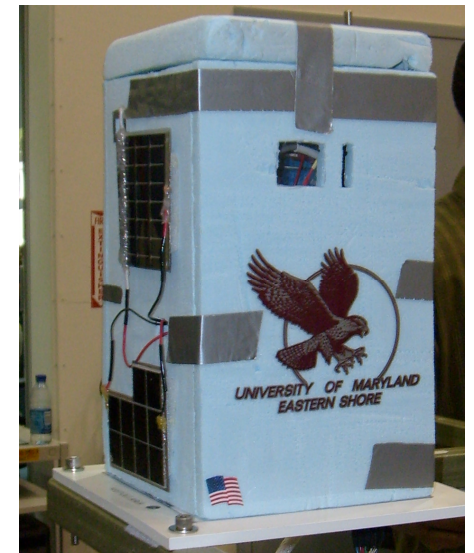
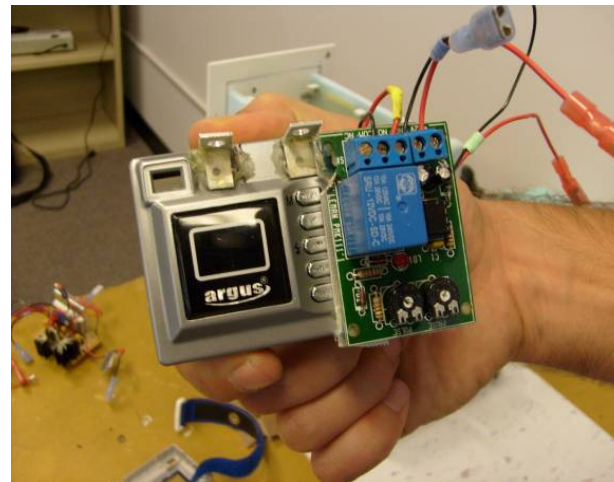
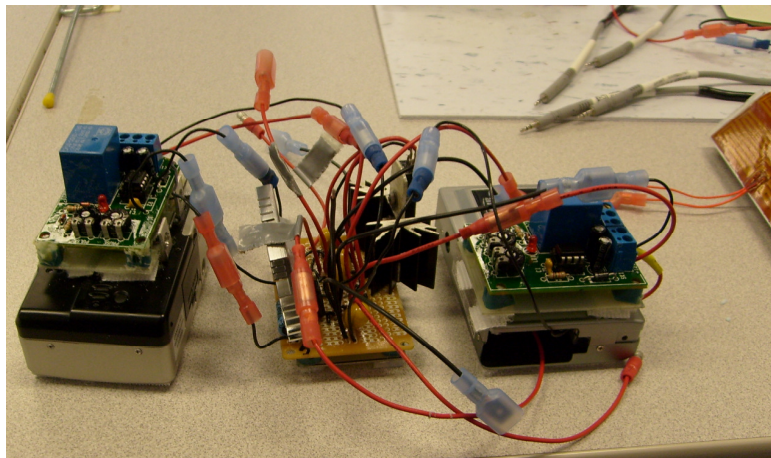
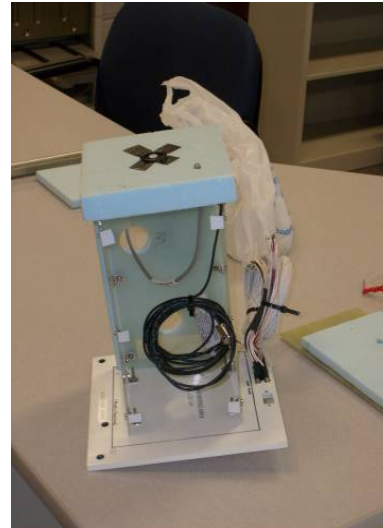
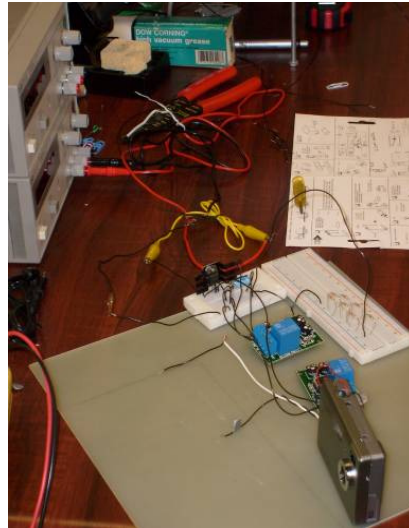
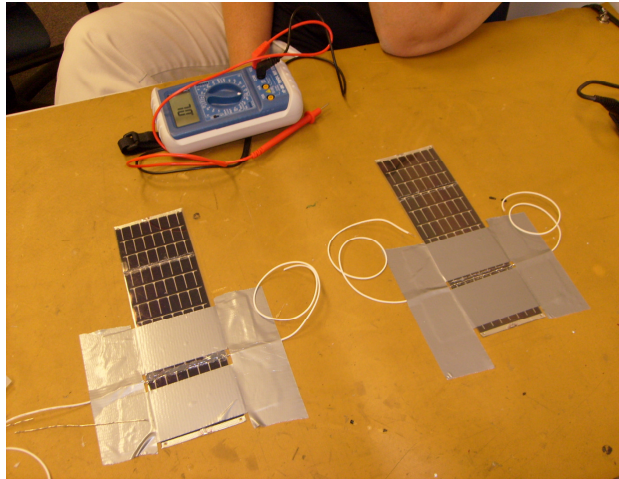


Figure 2 2007 Hawk HASP schedule

Student Experience

- LSU provided interface requirements and delivery schedule
- Villa & Davis provided additional requirements and mentoring
- UMES students completed design concepts, requirements verification, cost budget, mass budget, design documents, interfaced with vendors, learned to solder, mid-term and final presentations, final report, and of course made the experiments
- Summer interns completed assembly, testing, operation procedures, integration, and flight
- Students to analyze data and present results

Look Inside



Notable Events

- **July 24th –Arrived @ Columbia Balloon Research Facility.**
- **HASP Integration was headed by DR. T. Gregory Guzik and Michael Stewart, both from LSU. Dr. Guzik inspected payload for proper wiring and stability.**
- **Payload was weighed, attached to HASP then power tested. All tests and check were a success.**
- **Successful release and flight Sept 3, at Fort Sumner N.M**



CURRENT EVENTS

- Analyzing data for final report.
- Submit proposal for 2008 payloads.
- Larger payload limits of 3kg and 20 kg.
- Looking to involve AMSAT to fly a RF package as one of the subsystems for the next flight.
- Building on the educational outreach with UMES students started during the spring semester of 07.
- Utilizing the strong HISS/AMSAT relationship that revolves around the AMSAT lab in Pokomoke MD.
 - LSU HASP info at <http://laspaces.lsu.edu/HASP/>